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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/765,058	01/16/2001	Mandayam Andampikai Sridhar	AMPSP003	7712
32986	7590	02/23/2005	EXAMINER	
IPSG, P.C. P.O. BOX 700640 SAN JOSE, CA 95170-0640			LY, ANH	
			ART UNIT	PAPER NUMBER
			2162	

DATE MAILED: 02/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/765,058

Applicant(s)

SRIDHAR, MANDAYAM  
ANDAMPIKAI

Examiner

Anh Ly

Art Unit

2162

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 12 November 2004.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1,3 and 4 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,3 and 4 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 16 January 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Request Continued Examination***

1. The request filed on 11/20/2004 for a Request for Continued Examination (RCE) under 37 CFR 1.114 based on parent Application No. 09/262,172 is acceptable and a RCE has been established. An action on the RCE follows.
2. This Office Action is response to Applicant's amendment filed on 11/12/2004.
3. Claim 2 cancelled (dated 04/29/2004).
4. Claims 1 and 3-4 are pending in this application.

### ***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1 and 3-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No. 6,035,300 issued to Cason et al. (hereinafter Cason) in view of US Patent No. 6,208,992 issued to Bruckner.

With respect to claim 1, Cason teaches automatically creating a first user data model for said link table (a method and system for automatically generating data model a working user interface: col. 1, lines 42-50, lines 62-67 and col. 2, lines 1-8 and see fig. 9);

automatically assigning said foreign key attribute in said first user data model a first given attribute associated with said one of said plurality of said other tables, said given attribute is an attribute arbitrarily selected from attributes of said one of said plurality of other tables, thereby forming a second user data model (foreign key attribute is assigned as primary key attribute of parent entity contributed to a child entity across a relationship: col. 5, lines 54-67 and col. 6, lines 1-38; the data model and relationships of the tables via the links as shown in figs. 1-7 and col. 8, lines 46-67 and col. 9, lines 1-5); and

creating a dereferenced table from said link table using said second user data model, said dereferenced table including, for each of said plurality of link records, a value of said link table record ID attribute (Table Definition entity links from one or more records in Link Table entity and links to one or more records with the record ID or record key: col. 12, lines 26-67 and col. 13, lines 1-16, also see figs. 11-16), and content associated with said given attribute in a given record of said one of said other tables for a value associated with said foreign key attribute in said link table, said value associated with said foreign key attribute in said link table identifying said given record of said one of said other tables (a foreign key is a rolename to migrate across relationships to other tables' in the links of relationships of other tables: col. 6, lines 28-

Art Unit: 2162

38), said content associated with said given attribute being different from said value associated with said foreign key attribute that identifies said given record of said one of other tables (col. 5, lines 50-67 and col. 6, lines 1-38).

Cason teaches generating user data model to get data views for the user with the user interface and making relationships a part of user interface along with entities and attribute such as foreign key and implementing the data model to determine which relationships in the entities and the links of the relationships of the table in the data model as shown in fig. 9, item 302. Cason does not clearly teach link table.

However, Bruckner teaches link tables are used to store the links or relationships of the other tables (col. 5, lines 20-60 and col. 6, lines 20-35).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Cason with the teachings of Bruckner, wherein the links of the relationships of the other tables in the data model in the system in the system provided therein (see Cason's fig 9), would incorporate the use of link table for specifying the relationships between other tables in the database, in the same conventional manner as described by Bruckner (col. 5, lines 20-60 and col. 6, lines 20-35). The motivation being to ease the user to select the desired data view from the plurality of data views of the data models from the data schema of a database system.

With respect to claim 3, Cason teaches wherein said given attribute is the first attribute that comes after the record ID attribute in said one of said plurality of other tables (col. 12, lines 26-67 and col. 13, lines 1-16).

Art Unit: 2162

With respect to claim 4, Cason teaches presenting said second user data model to a user prior to said creating; permitting said user to specify a user-specified attribute as a substitute for said foreign key attribute, said user-specified attribute representing either a single attribute of said one of said plurality of other tables or a compound attribute that includes multiple attributes of said one of said plurality of other tables; and updating said given attribute with said user-specified attribute (see figs. 1 and 8 and col. 8, lines 18-40; updating and compound attribute: col. 10, lines 32-62 and col. 11, lines 1-8 and lines 32-46).


**Contact Information**


7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh Ly whose telephone number is (571) 272-4039 or via E-Mail: ANH.LY@USPTO.GOV or fax to (571) 273-4039. The examiner can normally be reached on TUESDAY – THURSDAY from 8:30 AM – 3:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene, can be reached on (571) 272-4107 or Primary Examiner Jean Corrielus (571) 272-4032.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any response to this action should be mailed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231, or faxed to: Central Fax Center (703) 872-9306

ANH LY   
FEB. 16<sup>th</sup>, 2005

  
JEAN M. CORRIELUS  
PRIMARY EXAMINER